

Serial No. 10/044,114

Response to Office Action

Examiner: Reilly, Sean M.
Group Art Unit: 2153AMENDMENTS TO THE CLAIMS:

Claims 1-35 (canceled)

Claim 36 (new): A reporting and maintenance system for remotely monitoring or controlling devices in an enterprise, comprising:

a server group including at least one server;

at least one non-volatile memory device incorporated to said server group;

server network hardware connected to said server group, said server network hardware being configurable to provide electronic communication between said server group and a superintendent system, said server network hardware being further configurable to provide electronic communication between said server group and at least one enterprise device in communicative proximity;

first computer readable instructions installed to said memory devices, said first instructions providing the function of receiving first messages from enterprise devices in at least one enterprise management protocol;

second computer readable instructions installed to said memory devices, said second instructions providing the function of forwarding the information contained in the first messages to a superintendent system;

third computer readable instructions installed to said memory devices, said third instructions providing the function of filtering the first messages, the filtering preventing the forwarding of some of the first messages; and

fourth computer readable instructions installed to said memory devices, said fourth instructions providing the function of executing policy upon recognition of particular states of enterprise devices.

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Claim 37. The system of claim 36, further comprising: fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of translating the first received messages to a second protocol.

Claim 38. The system of claim 36 wherein the first messages are communicated using version 1 of the simple network management protocol.

Claim 39. The system of claim 36 wherein the filtering of the first messages is prescribed through policy.

Claim 40. The system of claim 36, further comprising: a gateway included in said server network hardware configurable to provide communication between said server group and a superintendent system.

Claim 41. The system of claim 36, wherein said server network hardware is configurable to provide encrypted communication between said server group and a superintendent system.

Claim 42. The system of claim 36, further comprising: a network enabled temperature sensor, said temperature sensor positioned to monitor the temperature of the air in proximity of said server group.

Claim 43. The system of claim 36, further comprising: a cabinet housing said server group.

Claim 44. The system of claim 43, further comprising: a network enabled temperature sensor, said temperature sensor positioned to monitor the temperature of the air outside said cabinet.

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Claim 45. The system of claim 43, further comprising:

at least one door included in said cabinet whereby access to said server group is restricted when said doors are in closed position;

locks included in said doors whereby said doors may be secured in a closed position.

Claim 46. The system of claim 45 wherein at least one of said locks may be disabled through an electronic command message from a superintendent system.

Claim 47. The system of claim 45, further comprising: a data entry device connected to at least one of said locks, said data entry device being mounted to said cabinet, said data entry device providing a human interface external to the cabinet enclosure whereby at least one of said locks may be disabled through said data entry device.

Claim 47. The system of claim 36, further comprising: a network enabled camera whereby a space in proximity to said server group may be monitored.

Claim 48. The system of claim 36, further comprising: an alarm in proximity to said server group.

Claim 49. The system of claim 36, further comprising: a network enabled power controller connected to and being configurable to control the power of at least one server of said server group, said power controller being configurable to accept network commands from a superintendent system.

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Claim 50. The system of claim 36, further comprising:

fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of receiving second messages from a superintendent system, said second messages referencing at least one enterprise device;

sixth computer readable instructions installed to said memory devices, said sixth instructions providing the function of forwarding the information in the second messages to the referenced enterprise devices.

Claim 51. The system of claim 50, further comprising: seventh computer readable instructions installed to said memory devices, said seventh instructions providing the function of translating the second received messages to an enterprise management protocol utilized by the referenced enterprise devices.

Claim 52. The system of claim 50 wherein the second messages are communicated using version 1 of the simple network management protocol.

Claim 53. The system of claim 36, further comprising: enterprise devices in electronic communication with said server group through said server network hardware.

Claim 54. The system of claim 36, further comprising: a superintendent system in electronic communication with said server group through said server network hardware.

Claim 55. The system of claim 36, further comprising: fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of accepting network parameters that define the boundaries of an enterprise, said fifth instructions also providing the function of discovering enterprise devices through said server network hardware using the network parameters.

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Claim 56. The system of claim 36, further comprising: fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of receiving a software upgrade from a superintendent system, said fifth instructions also providing the function of delivering the software upgrade to enterprise devices.

Claim 57. The system of claim 36 wherein said server group includes two or more servers, the servers providing redundancy.

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Claim 58. A reporting and maintenance system for remotely monitoring or controlling devices in an enterprise, the devices communicating in at least one enterprise management protocols, said reporting and maintenance system comprising:

a server group including at least one server;

at least one non-volatile memory device incorporated to said server group;

server network hardware connected to said server group, said server network hardware being configurable to provide electronic communication between said server group and a superintendent system, said server network hardware being further configurable to provide electronic communication between said server group and at least one enterprise device in communicative proximity;

first computer readable instructions installed to said memory devices, said instructions providing the function of receiving status requests from a superintendent system, said requests referencing at least one enterprise device;

second computer readable instructions installed to said memory devices, said instructions providing the function of forwarding the requests to the referenced enterprise devices in at least one enterprise management protocol;

third computer readable instructions installed to said memory devices, said first instructions providing the function of receiving response messages from enterprise devices in at least one enterprise management protocol; and

fourth computer readable instructions installed to said memory devices, said second instructions providing the function of forwarding the information contained in the response messages to a superintendent system; and

fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of executing policy upon recognition of particular states of enterprise devices.

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Claim 59. The system of claim 58, further comprising: sixth computer readable instructions installed to said memory devices, said sixth instructions providing the function of translating the requests to an enterprise management protocol utilized by the referenced enterprise devices.

Claim 60. The system of claim 58, further comprising: sixth computer readable instructions installed to said memory devices, said sixth instructions providing the function of translating the response messages to an enterprise management protocol utilized by the superintendent system.

Claim 61. The system of claim 58 wherein communication of requests and responses to the enterprise devices is through version 1 of the simple network management protocol.

Claim 62. The system of claim 58, further comprising: sixth computer readable instructions installed to said memory devices, said instructions providing the function of translating the requests to an enterprise management protocol utilized by the referenced enterprise devices.

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Claim 63. A reporting and maintenance system for remotely monitoring or controlling devices in an enterprise, comprising:

- a server group including at least two servers, said servers providing redundancy of operation;
- at least one non-volatile memory device incorporated to said server group;

- server network hardware connected to said server group, said server network hardware including a gateway, said server network hardware being configurable to provide encrypted electronic communication between said server group and a superintendent system through said gateway, said server network hardware being further configurable to provide electronic communication between said server group and at least one enterprise device in communicative proximity;

- first computer readable instructions installed to said memory devices, said first instructions providing the function of receiving first messages from enterprise devices in at least one enterprise management protocol including version 1 of SNMP;

- second computer readable instructions installed to said memory devices, said second instructions providing the function of forwarding the information contained in the first messages to a superintendent system;

- third computer readable instructions installed to said memory devices, said third instructions providing the function of filtering the first messages, the filtering preventing the forwarding of some of the first messages, said filtering prescribed by policy;

- fourth computer readable instructions installed to said memory devices, said fourth instructions providing the function of translating the first received messages to a second protocol;

- a cabinet housing said server group; a first network enabled temperature sensor, said first temperature sensor positioned to monitor the temperature of the air at the interior of said cabinet;

- a second network enabled temperature sensor, said second temperature sensor positioned to monitor the temperature of the air outside said cabinet;

- at least one door included in said cabinet whereby access to said server group is restricted when said doors are in closed position;

- locks included in said doors whereby said doors may be secured in a closed position, said

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locks enabled to unlock through an electronic command message from a superintendent system;

a data entry device connected to said locks, said data entry device being mounted to said cabinet, said data entry device providing a human interface external to the cabinet enclosure;

said locks enabled to be unlocked through said data entry device;

a network enabled camera whereby a space in proximity to said server group may be monitored;

an alarm in proximity to said server group;

a network enabled power controller connected to and being configurable to control the power of at least one server of said server group, said power controller being configurable to accept network commands from a superintendent system;

fifth computer readable instructions installed to said memory devices, said fifth instructions providing the function of receiving second messages from a superintendent system, said second messages referencing at least one enterprise device;

sixth computer readable instructions installed to said memory devices, said sixth instructions providing the function of translating the second received messages to an enterprise management protocol utilized by the referenced enterprise devices;

seventh computer readable instructions installed to said memory devices, said seventh instructions providing the function of forwarding the information in the second messages to the referenced enterprise devices in at least one enterprise management protocol including version 1 of the simple network management protocol;

enterprise devices in electronic communication with said server group through said server network hardware a superintendent system in electronic communication with said server group through said server network hardware;

eighth computer readable instructions installed to said memory devices, said eighth instructions providing the function of accepting network parameters that define the boundaries of an enterprise, said eighth instructions also providing the function of discovering enterprise devices through said server network hardware using the network parameters;

ninth computer readable instructions installed to said memory devices, said ninth instructions

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providing the function of receiving a software upgrade from a superintendent system, said tenth instructions also providing the function of delivering the software upgrade to enterprise devices; and

tenth computer readable instructions installed to said memory devices, said tenth instructions providing the function of executing policy upon recognition of particular states of enterprise devices.

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